

CAJAL, N.; CEPLEANU, M.; SORODOC, Y.; SCHACHTER, A.; LOTREANU, V.

Cultivation in human embryo cells of a viral agent isolated from cases of Hodgkin's disease. Acta virol. 7 no.4:379 J1 '63.

1. Institute of Inframicrobiology, of the R.P.R. Academy, Bucharest.

(TISSUE CULTURE) (HODGKIN'S DISEASE)
(VIRUS CULTIVATION) (TUMOR VIRUSES)

CAJAL, N.; IANCONESCU, M.; ADERCA, I.; GRUIA, M.; CEPLEANU, M.;
DANIELESCU, S.; OPRESCU, E.; CIOBANESCU, M.

Serological investigations on children vaccinated with
inactivated or live modified virus antipolio vaccines.
Rev. sci. med. 8 no. 1/2:11-13 '63.

(POLIOMYELITIS) (POLIOVIRUS VACCINE) POLIOVIRUS VACCINE, ORAL)

PETRESCU, Al.; ATHANASIU, Pierrette; SURDAN, C.; CAJAL, N.;
SARATEANU, D.; avec la collaboration de VELCIU, V.
MARIN, D.; CADERE, N.

Viral etiology of ulcerous disease II. Rev. sci. med. 8
no. 1/2:75-77 '63.

1. Membre de l'Academie de la Republique Populaire Roumaine
(for Nicolau).
(PEPTIC ULCER) (VIRUS DISEASES) (RICKETTSIAL DISEASES)

NICOLAU, St.S, academician; CAJAL, N.; MITROIU, G.

Recent acquisitions on the etiology of viral epidemic hepatitis.
Stud. cercet. inframicrobiol. 14 no.1:7-16 '63.

1. Comunicare prezentata la Simpozionul "Hepatita cronica consecutiva
hepatitei epidemice".

(HEPATITIS, INFECTIOUS IMMUNOLOGY)
(VIRUS CULTIVATION)

(HEPATITIS VIRUSES)

CAJAL, N.; DRAGANESCU, N.; BURDUCEA, O.

The evolution of experimental encephalitis in mice infected with the tick virus and exposed to irradiation with β and γ rays.
Stud. cercet. inframicrobiol. 14 no.1:17-21 '63.

1. Comunicare prezentata la cel de-al II-lea Simpozion ramino-bulgar asupra encefalitelor actuale.

(ENCEPHALITIS) (ENCEPHALITIS VIRUSES)
(RADIATION EFFECTS)

RUMANIA

Conf Dr N. CAJAL [Affiliation not given.]

"Book Review. I. ADERCA and M. IANCONESCU, Tissue Culture in Inframicrobiology, Publishing House of the Academy of Sciences of Rumanian Peoples' Republic, Bucharest 1962."

Bucharest, Studii si cercetari de inframicrobiologie, Vol 14, No 3, 1963; pp 369-370.

Abstract : Very favorable narrative-expository review of this book of 318 pages; contents of the monographs are briefly described referring to various chapters; no critical comments.

L/1

RUMANIA

CAJAL, N., Corresponding Member of the RPR Academy (Membru Corespondent al Academiei RPR), CEPLEANU, M., SCHACHTER, A., SORODOC, Y., DEMETRESCU, R. and LOTREANU, V. of the Institute of Inframicrobiology of the RPR Academy (Institutul de Inframicrobiologie al Academiei RPR), the Department of Inframicrobiology (Catedra de Inframicrobiologie) of the Medical and Pharmaceutical Institute (Institutul de Medicina si Farmacie), Bucharest, and the Medical Clinic of the "I.C. Frimu" Hospital (Clinica Medicala, Spitalul "I.C. Frimu".

"Etiologic Investigations in Hodgkin's Disease. III. Attempts at Adaptation to Laboratory Animals of the Agent Isolated in Chick Embryos."

Bucharest, Studii si Cercetari de Inframicrobiologie, Vol 14, No 4, 1963, pp 409-416.

Abstract [Authors' English summary modified]: Eleven identical viral strains were isolated in embryonate hen eggs that had been inoculated intra-amniotically with Hodgkin products. Five of these strains were adapted to the white mouse after intranasal inoculation. A constantly lethal disease with an incubation period of four to five days was caused by the adapted mouse virus, whether administered intranasally, intraperitoneally, intracerebrally, intramuscularly, subcutaneously or intravenously. The virus was

1/2

ROMANIA

CAJAL, N. [affiliation not given]

"The Perspectives of the Investigations of the Section of Anthro-
viruses of the Institute of Inframicrobiology of the RPR Academy."

Bucharest, Studii si Cercetari de Inframicrobiologie, Vol 14,
No 4, 1963, pp 505-507.

Abstract: Discusses the plans for the development of the
genetics and inframicrobial variability laboratories of the
Institute. It is planned to concentrate attention on the
study of enteroviruses, the epidemic hepatitis virus, the
measles virus and the Hodgkins disease inframicrobe.

GAJAL, N., conf. dr.

Activity of the Inframicrobiological Institute of the Rumanian Academy. Natura Biologie 16 no.4:55-58 Jl-Ag'64

1. Corresponding Member of the Rumanian Academy, Bucharest.

CAJAL, N.; BOERU, Vera; POPESCU, Georgeta; PRAHOVEANU, Elena; DEMETRESCU, R.

The study of nucleic acids in the liver of mice inoculated with murine hepatitis virus of the strain MHV 3. Stud. cercet. infra-microbiol. 16 no.1:3-9 '65.

1/1

CAJAL, N.; SARATEANU, D.; BABA, Constanta; BABOS, Aurelia; OPRESCU, Elena;
BOTIS, S.; GHEORGHIU, V.

Research on the relations between maternal serum antibodies and
receptivity in vitro of attenuated polioviruses by human embryo-
nal cells. Stud. cercet. inframicrobiol. 16 no.2:101-108 '65.

Immunology

RUMANIA

616.915-085.371

CAJAL, N., CEPLEANU, Maria, and SORODOC, Yolanda, of the Institute of Inframicrobiology (Institutul de Inframicrobiologie) of the Academy of the Socialist Republic of Rumania (al Academiei Republicii Socialiste Romania).

"Specific Prophylaxis in Measles. I. The Preparation of a Vaccine with Modified Live Virus."

Bucharest, Studii si Cercetari de Inframicrobiologie, Vol 17, No 5, 66, pp 371-376.

Abstract: The preparation of an anti-measles vaccine with modified M60-5Huang virus on human embryo kidney cells is reported. The vaccine proved harmless for guinea pigs and white mice, and did not produce anaphylactic phenomena in guinea pigs. Anti-measles hemagglutination-inhibiting antibodies in titers of 1/640 to 1/960 were developed in the immunized animals both against the homologous strain and against the MN and Edmonston strains. Includes 2 tables, 6 figures and 19 references, of which 4 Rumanian, 2 Russian, 2 Chinese, 2 German and 9 Western. -- Manuscript submitted 4 June 1966.

RUMANIA

616.916-085.371

CAJAL, N., CEPLEANU, Maria, SORODOC, Yolanda, IONESCU, S.,
GARTNER, Magda, IANOPOL, Ligia, BOGHITOIU, Gh., FRIEDMAN, O.,
HULUTA, Lilliana, and IONESCU, Doina, of the Institute of Infrac-
microbiology (Institutul de Infracrobiologie) of the Academy
of the Socialist Republic of Rumania (al Academiei Republicii
Socialiste Romania).

"Specific Prophylaxis in Measles. II. The Testing on Children
of a Vaccine Prepared with Modified Live Virus."

Bucharest, Studii si Cercetari de Infracrobiologie, Vol 17,
No 5, 66, pp 377-387.

Abstract: An anti-measles vaccine prepared with modified live
M60-5Huang virus was tested on 220 children. Only minor clinical
reactions resulted, with a complete absence of rashes or con-
vulsions. One month after vaccination serum conversion was 79.41
percent, and the titer of anti-measles hemagglutination-inhibiting
antibodies varied between 1/80 and 1/320. After 4 months the
corresponding values were 75 percent and 1/40 to 1/80. Thus the
vaccination seems to confer a specific immunity, which so far has
protected the vaccinated children against measles.

1/2

Oncology

RUMANIA

CAJAL, N. Dr., Lecturer, Corresponding Member of the Academy
NASTAC, Elisabeta, Dr. Bucharest [Affiliation not given].

"Data Concerning the Current Concepts on the Virus Origin of Cancer"

Bucharest, Natura, Seria Biologie, Vol. 18, No. 3, May-June, 66, pp. 21-4.

Abstract: From the experimental data and theories concerning the origin of cancer, only those supporting the virus origin of this disease have been selected. Borrel in 1903 formulated the first hypothesis of a viral etiology of cancer. Subsequently this theory was experimentally verified in a large number of cases. In 1952 S. Nicolau emphasized the "quasi-general" property of the virus to stimulate the tissues until, under certain conditions, neoplasms are formed. A number of famous scientists from all over the world support the point of view that viruses appear in the development of tumors. The most recent concept of carcinogenesis was discussed at the Eighth International Cancer Congress in 1962. Without proliferation and modification of the nucleus a malignant growth is not possible.

1/1

COUNTRY:	: Czechoslovakia	G-3
CATEGORY	:	
ABST. JOUR.	: RZKhim., No. 5 1960, No.	17968
AUTHOR	:	
INST.	:	
TITLE	:	
ORIG. PUB.	:	
ABSTRACT	7 β-formylaminocholanic acid (I) is obtained, yield 3.9 gms, mp 176°. Application of a similar procedure to 3.9 gms of 3 α-hydroxy-12-ketocholanic acid gives 2.8 gms of 3 α-hydroxy-12 β-formylaminocholanic acid, mp 159° (from aqueous alc); 3,7,12-triketocholanic acid is similarly converted to 3 α,7 β,12 β-triformylaminocholanic acid (II), mp 288-290° (decomp; from alc-ether-petroleum ether). Refluxing for 4 hrs with conc HCl in alc converts I to the hydrochloride of 3 α.	
CARD:	2/4	

COUNTRY	:	Czechoslovakia	G-3
CATEGORY	:		
ABS. JOUR.	:	RZhlin., No. 51960, No.	17968
AUTHOR	:		
INST.	:		
TITLE	:		
ORIG. PUB.	:		
ABSTRACT	:	12 α,7-aminocholanolic acid (III, IIIa amino acid), mp 264-266° (from water). When III is refluxed with CH₃OH in the presence of conc HCl, the methyl ester of III (IV) is synthesized, mp 250° (from CH₃OH-ether), which on treatment with ion exchange resin gives the methyl ester of IIIa, mp 192-193° (from ether). The saponification of IV with an aqueous KOH solution gives IIIa, mp 203° (from alc-petroleum ether). Refluxing for 8 hrs with 10% alcoholic HCl converts II to the trihydro-	
CARD:	3/4	192	

COUNTRY:	: Czechoslovakia	G-3
CATEGORY	:	
ABS. JOUR.	: RZhKhim., No. 5 1960, No.	17968
AUTHOR	:	
TITLE	:	
ORIG. PUB.	:	
ABSTRACT	: chloride of 3 α , 7 β , 12 β -triaminocholanic acid, mp 3.5° (decomp; from aqueous alc).	
	G. Segal	
CARD:	4/4	

S/081/62/000/021/064/069
B160/B186

AUTHORS: Kozler, M., Cajanek, B.

TITLE: New types of viscose fiber

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 21, 1962, 495
abstract 21P399 (Chem. vlakna, v. 11, no. 4, 1961, 231-244
[Czech])

TEXT: The production and properties of high-strength, chemically modified and polynose fibers are discussed. Methods of modifying viscose fibers, and the modifiers used for this, are indicated. The properties of the viscose fiber are improved by the following means: adding modifiers to the viscose during the process of its preparation; introducing the technology of producing polynose fiber with a high modulus of elasticity; modification of the cellulose; using copolymerization etc. The new forms of viscose fiber, among them polynose fiber, which have a number of advantages over ordinary viscose fiber are being put into production and their rate of production will continually increase. [Abstracter's note: Complete translation.]
Card 1/1

CAJANKOVA, E.

First collective research on the life and culture of gypsies. p. 123.
SLOVENSKY NARODOPIS, Bratislava, Vol. 3, no. 1, 1955.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, no. 10, Oct. 1955,
Uncl.

CAJCIK, K.

"Research on the precision drilling of sugar beets."

p. 117 (Zemedelske Stroje) Vol. 2, no. 6, June 1957
Prague, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,
April 1958

CAJCIK, K.

"A beet-blocking machine."

p. 6 (Zemědělské Stroje, Vol. 3, no. 1, Jan. 1958, Praha, Czechoslovakia)

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, no. 9,
September 1958

CHS 44, p. 224.

GBRYE, E. Dr.; BURLIOVA, ins.; CAJHA, prof.; KRES, prof.

Phosphorus hydride poisoning in a foundry. Pracovní lek. 9 no. 1: -10
Mar 57.

1. KRES Zilinz, odd. hygieny prace Martin.
(PHOSPHORUS, pois.

gaseous phosphorus hydride in foundry workers (Cs))

(OCCUPATIONAL DISEASES, case reports

gaseous phosphorus hydride pois. in foundry workers (Cs))

DURISOVA, Viera; CAJDA, Ivan; KMET, Miroslav

Rapid determination of sulfates in urine. Pracovní lek.
8 no. 1: 42 Jan 56.

1. KHEŠ Žilina, odd. hygieny práce Martin
(SULFATES, in urine
rapid determ. technic (Czech))
(URINE,
sulfates, rapid determ. technic (Czech))

EXCERPTA MEDICA Sec 2 Vol 12/11

Physiology Nov 59

5253. COMPLEXOMETRIC ESTIMATION OF SULPHATES IN URINE - Komplexometrické stanovenie siranov v moči - Čajda I. KHES, Odd. Hyg. Práce, Martina - PRACOV. LEK. 1958, 10/6 (530-531)

Inorganic sulphates are precipitated from 3 ml. of the urine with BaCl_2 . Total sulphates are determined after treatment with HCl at 100°C . for 20-30 min. The precipitate is washed several times on the centrifuge and dissolved in an exactly measured amount of 0.02 M edetic acid in the presence of an ammonia buffer pH 8-10. The excess of edetic acid is titrated back with 0.02 M MgCl_2 using eriochrome black T as indicator.

OF SULPHATES IN URINE - Komplexometrické stanovenie siranov v moči - Čajda I. KHES, Odd. Hyg. 1958, 10/6 (530-531)

3 ml. of the urine with BaCl_2 . Total sulphates are determined after treatment with HCl at 100°C . for 20-30 min. The precipitate is washed several times on the centrifuge and dissolved in an exactly measured amount of 0.02 M edetic acid in the presence of an ammonia buffer pH 8-10. The excess of edetic acid is titrated back with 0.02 M MgCl_2 using eriochrome black T as indicator.

Heyrovský - Prague

CAJHEN, Rafael, mgr. ing. (Ljubljana)

Regulation amplifiers with transistors. Avtomatika 3 no.5:
327-330 O. '62.

CAJHEN, Rafael, mgr. ing. (Ljubljana)

The high-precision control of turns. Automatika 3 no.6:415-419 D
'62.

CAJHEN, R., inz.

"Small handbook of control technics" by Werner Zühlendorf. Automatika
3 no.6:443 D '62.

CAJHEN, R.

"Electric correcting elements in automation" by G. K. Krug
and J. K. Krugova. Reviewed by R. Cajhen. Elektr vest 30
no. 10/12:323 '62/'63.

CAJHEN, R.

"Collected works of the Yugoslav Seminar on Regulation, Measurements, and Automation." Vol. 1. Reviewed by R. Cajhen. Elektr vest 30 no. 8/9:240-241 '62/'63.

"Electric regulators of nonelectric quantities" by R. Dvorak. Reviewed by R. Caljhen. Ibid.:256.

CAJHEN, Rafael, mgr.ing.

~~The FID transistor regulator. Automatika 4 no. 2:126-133 '63.~~

~~S: HEN: = S S :~~

~~CAJHEN, Rafael, mgr.ing.~~

~~-----> O.-O.-~~

The FID transistor regulator. Automatika 4 no. 2:126-133 '63.

1. Elektrotehnicna fakulteta, Ljubljana.

HOFER, E.; AVOIN, F.; MIKLAVZIC, U.; PONIZ, R.; GOSAR, P.; GRUDEN, M.; DOBEIC, J.;
VAJDA, B.; MLAKAR, F.; VIRANT, J.; VDOVIC, J.; JE. E. P.; GEMJANC, I.;
STARIC, P.; SKUBIC, T.; MAGAJNA, B.; KERSIC, N.; L. F. ADIS, S.; PIRKMAJER,
E.; CAJHEN, R.

New books and periodicals. Elektr v. 17 no. 1/2 1964. Ja-F '64.

CAJKA, A.

Cables for service of 100 kv voltage in the hydraulic-power plant at
Slapy. p. 518.
(Elektrotechnický Obzor, Vol. 45, no. 10, October 1956. Czechoslovakia)

SO: Monthly List of East European Accessions. (EEAL) LC. Vol. 6, No. 6,
June 1957. Uncl.

CAJKA, JOSEF.

Vypocet zakladnich vysokofrekvenenick obvodov. (Vyd. 1.)

Praha, Czechoslovakia, Statni nakl. technicke literatury, 1958. 86p.

Monthly List of East European Accessions (EEAL), LC, Vol. 8, No. 9, September 1959.

Unclassified.

CAJKA, J.; TICHY, J.

A simple method for computing linear networks containing thermionic valves.
p. 374. (SLABOPROUDY OBZOR, Vol. 18, No. 6, June 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 12, Dec 1957. Uncl.

CAJKA, J.

Approximate solution of algebraic equations of 3rd and 4th order. p. 360.

APLIKACE MATEMATIKY. (Ceskoslovenska adademie ved. Matematicky ustav) Praha, Czechoslovakia. Vol. 3, no. 5, 1958.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 12, December 1959
uncla.

CAJKA, J.

"Stability areas of a closed system of linear circuits." p. 197.

SLABOPROUDY OBZOR. (MINISTERSTVO PRESNEHO STROJIRENSTVI, MINISTERSTVO SPOJU A VEDECKA TECHNICKA SPOLECNOST PRO ELEKTROTECHNIKU PRI CSAV.) Praha, Czechoslovakia, Vol. 20, no. 3, Mar. 1959.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, No. 9, September 1959.
Uncl.

CAJKA, J.

"Note on direct calculation of node elements of a common four-terminal network." P. 332.

SLABOPROUDY OBZOR. (Ministerstvo presneho strojirenstvi, Ministerstvo spoju a Vedecka technicka spolecnost pro elektrotechniku pri CSAV). Praha, Czechoslovakia, Vol. 20, No. 5, May 1959.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 8, August 1959.
Uncla.

CAJKA, J.

Substitute circuits with constant-current generators. p. 529.

SLABOPROUDY OBZOR. (Ministerstvo vesobecnih strojirenstvi, Ministerstov, spoju
a Ceskoslovenska vedecko-technicka spolecnost, sekce elektrotechnika) Praha,
Czechoslovakia, Vol. 20, No. 7, July 1959.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 11,
November 1959.

Uncl.

CAJKA, J.

Synthesis of simple-passive two-pole networks. p. 368.

SDELOVACI TECHNIKA. (Ministerstvo strojirenstvi) Praha, Czechoslovakia. Vol. 7,
no. 10, Oct. 1959.

Monthly List of East European accession, (EEAI), LC, Vol. 8, No. 12, Dec. 1959
Uncl.

CAJKA, J.

Some additional application of the matrix interpretation of the method of nodal voltages. P 768

SLABOPROUDY OBZOR (Ministerstvo vseobenibo strojirenstvi, Ministerstvo spoju a Ceskoslovenska vedecko-technicka spolecnost, sekce elektrotechnika) Praha, Czechoslovakia, Vol. 20, no. 12 Dec. 1959

Monthly List of East European Accessions (EEAI), LC. Vol. 9, no. 2, Feb. 1960

Uncl.

CAJKA, J.

Z/039/60/021/01/024/040
E073/E135

AUTHOR: Josef Čajka (Engineer)

TITLE: On Calculating the Elements of an Equivalent Circuit;
with an Ideal Power Gyrator

PERIODICAL: Slaboproudý Obzor, 1960, Vol 21, Nr 1, pp 56-57

ABSTRACT: It is sometimes necessary to convert an π -mode (Fig 1a) from reciprocal quadripole into an equivalent reciprocal π (Fig 1b) or T-type (Fig 1c) quadripole by means of an ideal power gyrator. The progression matrix of such a reciprocal quadripole, a , is expressed by Eq (2) where the parameters A , B , C , D , M and W can be evaluated from the sub-determinant of the admittance matrix of the original quadripole. From Eq (2) it is possible to calculate the impedances or admittances of the equivalent reciprocal quadripoles. The required conversion formulae are given by Eqs (4) and (5). The procedure is illustrated by a numerical example of a simple amplifier (Fig 2). There are 2 figures and 3 Czech references.

Card
1/1

CAJKA, Josef, inz.

Calculations on the rectangular impedance diagram. Slaboproudý
obzor 21 no.6:340-345 Je '60. (KEAI 9:10)

1. Vojenska akademie Antonina Zapotockeho, Brno.
(Impedance (Electricity))

GAJKA, Josef, inz.; RYBAK, Vladimir, inz.

Complete admittance matrices of a junction transistor at high frequencies. Slaboproudý obzor 21 no.10:631-632 0 '60. (EEAI 10:2)
(Transistors)

Z/039/61/022/012/001/009
D291/D306

9.3240

AUTHORS: Čajka, Josef, and Pospíšil, Břetislav, Engineers

TITLE: A contribution to the design of amplifiers with
matched output impedance

PERIODICAL: Slaboproudý obzor, v. 22, no. 12, 1961, 716-719

TEXT: The author demonstrates a method for calculating the ratio of audio frequency transformers in a final stage circuit of group amplifiers with multiple-loop feedback when matching is required on the input and output side as well as small nonlinear distortion and an optimum value of the load for the active dependent element, either a pentode or transistor. The author bases his calculation on a transmission element with n independent linear loops (circuits), where the feed generator of the internal impedance (Z_g) is connected to the input loop and the load impedance (Z_z) is connected to the output loop. For the entire transmission element, an impedance matrix (Z) can easily be established. Based on this

Card 1/2

A contribution to the design ...

Z/039/61/022/012/001/009
D291/D306

matrix, the following four equations are derived: (a) the input impedance of the amplifier stage, (b) its output impedance, (c) the voltage gain, (d) the current gain. The author points out that even in the case of a relatively simple connection, the calculations are rather complicated and the relations are difficult to arrive at, if one wishes to obtain the requirements described above. A solution, however, is possible with the help of sequential approximations which must be established individually for each particular design. An example of such an iterative calculation process is given for one possible end stage connection. There are 6 figures and 4 Soviet-bloc references. ✓ B

ASSOCIATION: Vojenská akademie Antonína Zápotockého, Brno (Antonín Zápotocký Military Academy in Brno)

Card 2/2

CAJKA, Josef, doc., inz.

Professor Vojtech Hercik;
125 F '62.

obituary. Slaboprcudy obzor 23 no.2:

CAJKA, Josef

Determining the oscillation conditions from the four-pole
parameters of linear circuit systems. Slaboproudy obzor 23
no.8:479-480 Ag '62.

CAJKA, Josef; POSPISIL, Bratislav

Terms used in the theory of linear electric circuits. Slaboproudy
obzor 24 no.1:50-51 Ja '63.

CAJKA, Josef

Dependence of the basic four-polar quantities of aircraft systems
on the change of a parameter of one of the system elements.
Slaboprudy obzet 23 no.10:593-594 0 '62.

CAJKA, Josef

"Brushing quadripoles" by Ju. T. Velicko [Velychko, Yu. T.].
Reviewed by Josef Cajka. Slaboproudy obzor: Suppl.: Literatura
24 no. 4: 125, 127 '63.

CAJKA, Josef

~~XXXXXXXXXX~~
Calculation of substitute sources in active transmission cells.
Slaboprudy obzor 24 no.5:311-312 My '63.

CAJKA, Josef

Remark on the reduction of the number of coordinates. Slabo-
proudy obzor 24 no.11:679-680 N°63.

CAJKA, Josef

How many simple equivalent circuits for an electron tube
are possible? Sdel tech 12 no. 3:111 Mr '64.

ACCESSION NR: AP4040761

Z/0042/64/000/006/0321/0331

AUTHOR: Cajka, Josef(Chayka, Y.)(Professor of engineering, Candidate of sciences);
Pokorny, Otakar(Pokorny*, O.)(Engineer)

TITLE: A matrix method of solving circuits with parametric dipoles in the steady state

SOURCE: Elektrotechnicky casopis, no. 6, 1964, 321-331

TOPIC TAGS: circuit, parametric amplifier, frequency converter, circuit research

ABSTRACT: A description is given of a simple, universal method of solving a circuit system with parametric dipoles (f. i., parametric amplifiers, frequency converters etc.) in the steady state. The method uses data from the matrix interpretation of the knot voltage method for the solution of a linear circuit system with parameters not varying with time. The parametric dipoles and time invariable the dipoles are characterized by component matrices of admittance. The method is advantageous mainly in the solution of circuits with selective elements, which reduce the number of the frequency spectrum components. The initial matrix equation between the components of the knot currents and the knot voltages can be constructed according to simple rules directly from the principal scheme of the network without auxiliary or equivalent schemes.

Card 1/2

ACCESSION NR: AP4040761

ASSOCIATION: Vojenska Akademie Antonina Zapotockeho, Brno (Military Academy)

SUBMITTED: 21Aug63

DATE ACQ: 00Jun64

ENCL: 00

SUB CODE: EM

NO REF SOV: 001

OTHER: 006

Card 2/2

CAJKA, Josef, prof. inz. CSc.; POKORNY, Otakar, inz. CSc.; MIKULA, Vladimir,
inz.

Solution of circuits with noninertial parametric n -poles in
the stationary state by the matrix method. E3 sch cas 16
no.4:193-200 '65.

1. Antonin Zapotocky Military Academy, Brno. Submitted September
5, 1964.

REEL # 79

BYCHKOVSKAYA, A.L

to

CAJKA, JOSEF, Prof.

END